

**Claims:**

Cancel Claims 48, 49, 51 and 52

Claim 50, rewrite (amend) Claim 50 as follows:

A method for anaerobic bioremediation whereby a solid-chemical composition [in accordance with Claim 48] comprising a granular source of Manganese (IV) is applied to contaminated geologic media within a remediation trench, slurry-wall, semi-permeable barrier, or well-packing material, whereby said source of Mn(IV) is one or more selected from the group consisting of glauconite, manganese greensand, and pyrolusite, and whereby said Mn(IV) serves as an electron acceptor for manganese-reducing bacteria and other anaerobic bacteria.

Claim 53, rewrite (amend) Claim 53 as follows:

A method for anaerobic bioremediation whereby a solid-chemical composition [in accordance with Claim 51] comprising a source of Fe(III) containing minerals is applied to contaminated geologic media within a remediation trench, slurry-wall, semi-permeable barrier or well-packing material, whereby said source of Fe(III) containing minerals are one or more selected from the group consisting of Fe(III) hydroxides and oxyhydroxides, and whereby said Fe(III) serves as an electron acceptor for iron-reducing bacteria and other anaerobic bacteria.